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How The American Indians Came Across From China

Princeton University Scientists Searching for the Sunken Remains of the Ancient Bridge Which Connected Europe and America Thousands of Years Ago

By W. H. Ballou, Sc. D.

SET your clock back to a period exsand years to 70,000 years ago; to the time of the evolution of the human race and of other mammalia. Let your imagination roam from that period as far back as you like. It should not be difficult for any one to set up a mental image of a world at that time considerably different in its natural conformations to those which exist to-day. We know this tentatively because of the discovery of animal and plant remains in places which they could only have reached on land bridges.

Where were these land bridges and what crossed them? Many men of science for several hundred years have given much attention to the subject and assembled vast collections and data and specimens in proof of the general hypothesis. Not a single man of science has thrown doubt on the existence of land bridges extending entirely around the region of the Arctic Circle in ancient times. The remain more or less of a mystery.

At the present moment, the third expedition of Princeton University, under Professor Gilbert Van Ingen, one of the greatest invertebrate paleontologists, is investigating in Newfoundland and collecting fossils to establish such a bridge and its location, connecting that province with scotland and Scandinavia. It may well be doubted if Professor Van Ingen will accept as such bridge the apparent ridge of rock on which the Atlantic cables are laid. The water over this ridge ranges to 5,000 feet depths and lies too far south of the Continental Shelf, the line around continents where the ocean abyss jumps from 600 feet to precipitous deeps. All that he will attempt to do will be to prepare a map of curvatures in lesser depths, which conservative investigators can accept. This latter class accept as conclusive the hypothesis of Matthew that ocean abysses were never crossed by land bridges, connecting, for instance. Australia, Madagascar and Cuba with the

Admitting tentatively, then, former land bridges that connected Asia and Alaska on one side of the world, and Scandinavis, Scotland, Europe, Iceland, Faroe and other islands, Greenland and Labrador on the other side, there remains to show Missourians and others what peoples, animals and plants made use of these bridges for their migrations, using

legs in place of Pullman cars. America was peopled before the last ace age set in. By whom and how? Matthew has shown that all life, animal and vegetable, was dispersed from a Holarctic-Asiatic region, of which Thibet was the centre, migrating in successive waves until the uttermost parts of the earth were reached. Boas has demonstrated that the Mongoloid type of men, from their habitat in northern and central Asia, reached Europe and the new world.

As to the use of the natural bridge between northeastern Asia and Alaska, Boas finds that the only people that patronized it prior to the last ice age, were the Ainus of Japan and the Pacific north

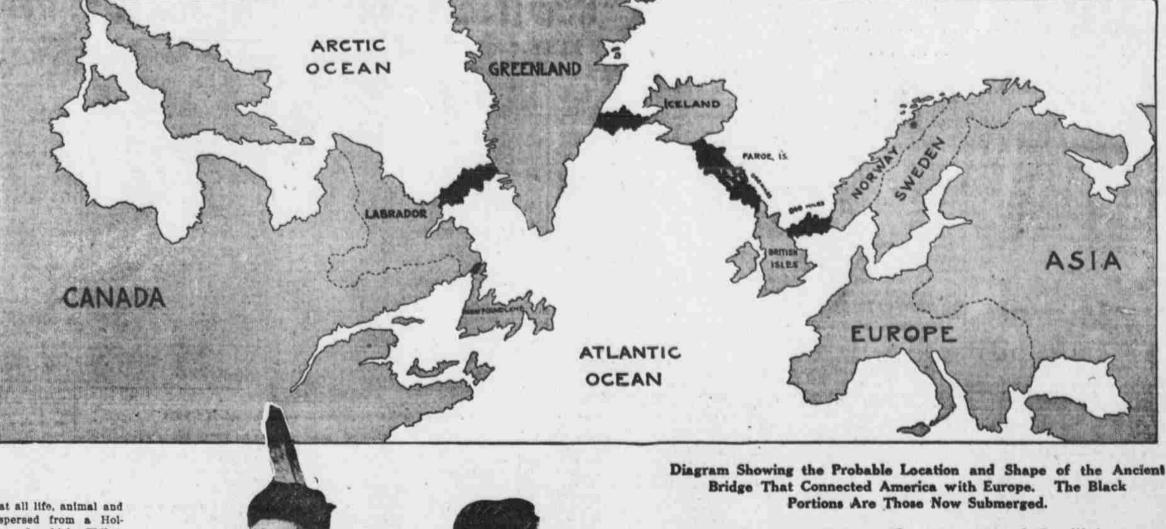
western tribes. No culture of these peoples, who intermingled at will, has ever been found existing among other American tribes. Boas says: "Pottery neither reached the Pacific Northwest nor the extreme of South America, and the art forms of the North Pacific coast and of the Arctic coast, show no affiliation with those of the middle portions of the continent." Our New York State Indians are regarded as still primitive Aryans.

What is the answer? Mongolians could not have passed through Siberia and Alaska to Middle North America without leaving traces of their own culture and carrying along some of the culture of the Ainus or other north-Further, Asiastics were cut off from northeast-ern migrations both by the terrible Mongolian steppes and the vast ranges of east west running snow-clad mountains. They could have reached America in two ways They could have used some form of craft or they could have travelled across the prehistoric land bridge from Europe to Labrador!

Matthew well remarks that if a cance full of Asiatics got blown across the Atlantic once in a century or once in ten centuries, it would be ample to populate the world during the thousands of years man has existed on earth. These canoes, however, could not well contain domestic animals, and there is ample evidence that the prehistoric Americans either brought



Photographs of a Chinese Baby and an American Indian Baby, Showing the Marked Similarity Between the Two.



domestic animals and food plants with them across the land bridge or tamed the animals and plants they found here. The idea of the Atlantic bridge fits best as the domestic animal and plant looms up on the historic horizon with first brainy men. If any Missourian still remains to be shown, he has only to try the experiment that has so often been adopted to make good the hypothesis. Let him attempt to separate Chinamen or Indians when a dozen or more of them are dressed alike. And then, there is that early Mexican culture identical with that of Egypt.

There were vast populations of mankind, enormously increasing, 250,000 years and more agone. Why sit in your easy chair, puff up like a cobra, and imagine that you have a monopoly on brains, mind and invention? In some respects you haven't even advanced in civilization up to the age of the lost arts of 6,000 to 8,000 years ago. You haven't been able to reinvent those lost arts Your brain case is even smaller than was that of prehistoric man.

I doubt if any of us living in this latitude have brains enough to withstand a sudden descent of an ice age such as confronted first men, side step it and sur-

I doubt if there is a man living who can whip a gorilla with his hands or chimpanzee, orang or gibbon or other huge primate as prehistoric men did and had to do in order to exist.

Professor Van Ingen's lend bridge around the Arctic Circle region must have been good travelling, according to Gelkie, Nansen, Knowlton, Stejnoger, Ewart and other noted investigators. The Arctic world was sub-tropical in those days before the formation of ice caps. The prehistoric Westons or nomads perhaps on horseback must have delighted in polar travels as much as you or I in a bike in Central Park on a balmy day in June. Some of those same trees our prehistoric friends encountered, the ginkgos, have been liberally transplanted in our parks, brought hither yea-s ago from Japan and transplanted. I regret to note that one of them is now being attacked in Central Park by the terrible saprophytic fungus, Fomes leucophaeus, just one of the brackets of which will shed spores enough to destroy many other park trees. Knowlton says of the climate in those times, based on fossil fiora, that it seems safe to assume a moist, warm, possibly sub-tropical condition. More than 100 species of fossil flora unearthed in England, have been found in the rocks entirely around the Arctic

Leonhard Stejneger, perhaps, did the most stupendous work in compiling the faunae and florae, which he assumed could only have travelled across the land bridge between Scotland and Norway. In so doing, he had to admit similar bridges which others had set up between Scot-land, Faroe Islands, Iceland, Greenland and Labrador. No scientist can assert positively that such bridges existed, no matter how much data he collects. What he can prove is that no other known method existed in former times by which a belt entirely around the northern part of the globe was peopled with identical animals and plants, vertebrates and invertebrates. The fossil forms in collections tell very near exactly where each

tent relieved by singing.

In brief, therefore, the sweet concourse

of vocal sounds, called singing, undoubt-

edly acts in a fashion as a substitute for dumbells, Indian clubs, pitching quoits, playing golf, baseball and awimming.

Like dancing, the exercise received in

genus originated. How did these genera or their successors disperse? If they could not fly or were not transported, then he insists, they must have dispersed by means of existing land bridges and occasionally by natural marine grass

The distance between Faroe Islands and Scotland and between the latter and western Norway is 240 miles in each case. The water depths existing between them to-day and in the other spaces was caused, geologists assert, by the weight of successive tce caps, depressing the earth crust. Some geologists figure as many as six successive ice caps. The number has little bearing on the matter since the last one was sufficiently appalling to make ofr perfect navigation at the present time, where walking had former-ly been good. I say appalling because there is no doubt that the last ice cap, still receding, northward, pounded the earth crust down to stay where it is, while the first ice caps did no such stunt. earth arose several hundred or more feet after the first ice cap receded.

Archibald Geikle accumulated a lot of data on the subject which remains in his still authoritative work on "The Great Ice Age." So, the geologist's data is used paleontologists to support hypothetical land bridges in order to account for migrations of men, other mammals, flightless birds, reptiles, crustaceans, invertebrates, trees, and plants which had seeds too heavy to be borne by winds and which sank in water rather than swim

Just how invertebrates migrate long distances is a matter which it is to be doped Professor Ingen or others will clear up. I have seen clams travel by suction, but only on the bottom of water areas. Steineger sets up such Atalantic and Arctalantic blots as world girdlers on the land bridges, but without describing the process. Among these he men-tions terrestrial molluscs, earthworms, sopod crustaceans, noctuid moths, bumble bees and an entire series of insects of the orders of lepidoptera, hemiptera and coleoptera.

Some of these are essentially slow

travellers and probably required hundreds, perhaps thousands of years to disperse the tremendous distances across those land bridges and over the moun-tains and plains of the mainlands. Give a pair of snails several millions of years and they and their descendants could no doubt populate the entire earth with their kind, however slow a cartoonist might de-

Among the mammals common to the whole sectional circle are the variable hare, the lemming, the red-backed field mouse, the wild reindeer, the red deer. very primitive horses and the extinct

When one considers the several types of men, other animals and plants that have apparently endured continuously since early Pleistocene times, and some of them much longer, in the cold storage section of the world, there cannot be the slightest doubt that if land bridges existed, there was ample travelling done over them in both directions. The Princeton expedition will at least have the satisfaction that all of the evidence collected supports the hypothesis of a Labrador-Scotland land bridge. Even a Missourian cannot deny that it may have



An American Indian in Aboriginal Costume, and the Same Indian in Chinese Costume. In the Latter Costume He Would Pass Anywhere as a Chinaman.

Why Singing Is Such An Excellent Physical Exercise

PERSON'S physical virtues often form the magic of his song. Singing is music married to a nan's muscles. The melodious sounds which issue from the throat require as muscular exertion as you might

apply to pump an organ.
Singing is a mossic of stimulant and physical training. Every instant that you lift up your voice in song there oc-cur heaves and contractions in the muscle of the chest, the abdomen, the throat, the cheeks, and even inside the abdo-men and thorax.

These muscles, as well as the liver, stomach, spieen and diaphragm all move in perfect harmony to the song. Othello says Desdegnona could sing the savageness out of a bear. Scientific experiments both the singer and the listener by the athletic movements stirred up in the fibres and elastic elements of the muscles. Even where tuberculosis and some kinds of heart disease exist, the sufferen must needs exercise. Medical research shows that the absence of all exercise,

except where fever is present, is by no means desirable. On the other hand, unless some gentle sort of muscular exertion is systematically carried out, the tissues of the victim

become soft, flabby and not adapted to strain and tension. Singing is thus a most praiseworthy kind of calisthenics. It takes the place of violent athletics and strenuous physical culture. It is harmless, always available, and can be made to serve the pur-

show the vibrations of vocal music soothe pose at any proper time and place. Copyright, 1815, by the Star Company. Great Britain Rights Reserved.

By Dr. Leonard Keene Hirshberg, A.B., M.A., M.D., (Johns Hopkins University.) The very breathing exercises which a singing is more enjoyable, soothing to

vocal teacher institutes go a great way the physical fabric than are gymnastics, in training the muscles of the throat, which a man does merely from sheer neck, back, chest and belly. duty. You sing with spirit and pleasure; often you will take the prescribed course Furthermore, those same exercises cause the muscles of the stomach and of physical training or gymnasium work other interior structures to squeeze tosimply because your will dictates and degether and expand. This alternate exmands it; because your better knowledge pansion and contraction in their turn calls for it. empty out the waste, useless and accu-mulated materials. Thus constipation and its attendant ills are to a large ex-

If the encaged canary bird imprisoned in my lady's chamber did not trill hiz brilliant songs, he would die of inac-

If the snarling, growling tigress in the circus or zoo did not emit her rumbling monotones her muscles would waste away until she could not spring for her